## SUBJECT INDEX

 $b = \text{Book Review}; \quad c = \text{Correspondence}; \quad r = \text{Report of conference}$ 

Accidents and self-regulation 109-112b no-fault compensation 413-417b prevention human factors in 114-115b lasers 664b New Zealand 405-411 Activated carbon filters 1-11 Aerosol distribution, heated phantom in small room 35-44 Air cleaning, filters for 1-11 Air conditioning, heat exchanger for 329c Air samplers diffusive 305-313 for mining industries 249-262 performance re ISO inhalability criteria 249-262 personal 281-291, 553-573 selection and use 331-333b Air sampling asbestos fibres inside respirators 547-552 cowl effect, amosite 521-527 error due to particle deposition on filter holder 399-403 science and practice 331-333b strategy 35-44 Allergens, stability to detergents 215-229 Alumina, use of OSIRIS for monitoring 271-273 Aluminosilicate, surface coating of quartz particles 195-204 Amosite air sampling, cowl effect 521-527

air sampling, cowl effect 521-527 lung fibre content, MMMF workers 431-438 Analytical methods, validation 188 Animal studies, extrapolation to man 232-2337

Anthophyllite, lung fibre content, MMMF workers 431-438 Antigens, stability to detergents 215-229

AQUA, interlaboratory quality assurance scheme 77-83

Arsenic
exposure control, Chile 471-482
production history, England 471-482
Asbestos

air sampling, cowl effect 521-527 analysis of amphiboles in chrysotile 159-175 fibre release from brake and clutch linings 529-534 lung fibre content, MMMF workers 431-438 non-occupational exposure 333-334b threshold exposure 443-451
Asbestos stripping, respirators for 547-552
Asbestosis, amphibole threshold for 443-451
Attitude of workers, effect on performance of hearing protectors 464-465
Audiometric surveillance, detection of NIHL 361-370

Biological exposure indicators, toxicokinetic models and 639-651 Biological monitoring arsenic 478-480 drug metabolism 653-662 occupational hygiene aspects 315-322 toxicokinetic models and 639-651 Brake linings, fibre release from 529-534 Brazing mats, MMMF, airborne fibre levels 97-99 Brickworks dust control, Holland 483-497 respirable dust concentrations, Holland 492-497, 505-507 British Occupational Hygiene Society (BOHS) conferences 1989 annual 125-136, 189-193, 509-519 1990 annual 535-539, 547-552 President 1990-1991: J.H. VINCENT 423-426 British Rubber Manufacturers'

Association (BRMA), mortality study 349-359

Cancer
criteria for establishing causation
349-359
following peptic ulcer surgery 19-27
See also: Lung cancer; Stomach cancer
Carbon monoxide, teratogenicity 335-347
Carcinogenicity, oil-based drilling
fluids 143-154
Carpet dusts, effect of detergents on
allergens and antigens 215-229
Casella 7-H sampling head 553-573
Cassettes
dust-collecting, use in dust samplers
281-291
sampling errors due to particle
deposition on 399-403

Buildings, noise control in services 239-240b

biological effects 391-397 Cellulose fibres 64-65, 72-74 Ceramic fibres, brazing mats 97-99 Chemicals, materials penetration tests Chile, arsenic exposure control 471-482 China, occupational health in 418-419b Chloralkali industry, mercury exposure and control 205-214 Chrysotile analysis of amphiboles in 159-175 fibre release from brake and clutch linings 529-534 CIP10 respirable dust sampler, entry characteristics 249-262 Cleaning solutions, modification of allergens and antigens 215-229 Clearance of inhaled particles 137-147, 623-637 Closed-face samplers (1H/7H), entry characteristics 249-262 Clutch linings, fibre release from 529-534 Coal dust, fibres in 91-95 Coal mining, performance of air samplers

Cellulose acetate vapours, detection of

for use in 249-262 Cobalt, exposure of diamond polishers 609-614 Compensation, no-fault industrial injuries 405-411 in medicine 413-417b Computer system, for mining exposure and smoking data 444-446 Control of Substances Hazardous to

Health Regulations 1988 (COSHH), company programme for 177-188 Cooling towers, management for Legionella control 189-193 Cowl, effect on air samples for amosite

521-527 Crocidolite, lung fibre content, MMMF workers 431-438

Deposition of inhaled particles 623-637 Detergents, modification of allergens and antigens in floor dusts 215-229 Di-2-ethylhexylphthalate (DEHP), air concentrations, PVC processing 585-590 Diamonds, cobalt exposure during polishing 609-614 Diethylphthalate, detection of biological effects 391-397 Diffusive samplers, for formaldehyde 305-313 Domestic exposure to radon 541b Dosimetric models 635 Drilling fluids, oil-based, health effects 149-157 Drug metabolism, detection ... polymorphism 653-662

Dust characterisation, in soft paper mill 55-75 control in brickworks, Holland 483-497 exposure, and gastric cancer 22-26 Dust masks, skin lesions at margins of 481

Energy dispersive X-ray analysis (EDX), and SEM, occlusion of quartz particles 195-204
Environment, asbestos fibre concentrations from vehicular traffic 529-534
Environmental tobacco smoke, lung cancer

Environmental tobacco smoke, lung cancer risk 232-233<sup>r</sup>

Epidemiology

choice of reference population 349-359 criteria for establishing carcinogenicity 349-359 low-risk situations 231-2347 lung tissue analysis in autopsy studies 427-441 proposed code of practice 233r Ergonomics, and accident prevention 114-115b European Economic Communities (EEC), Directives, practical implications of harmonization 131-136 Exposure history, lung dust analysis 427-441 Exposure limits German 112-114b ionizing radiation 535-539 for non-standard work schedules 13-17 Exposure threshold, asbestosis, 443-453

Fibre sample evaluation, SEM and porous filters 101-105
Fibreglass, brazing mats 97-99
Fibres
airborne concentration in paper mill
55-75
coal, in high rank coalmine dusts 91-95

non-occupational exposure 333-334b Filter holders, sampling errors due to particle deposition on 399-403

Filters

activated carbon 1-11
breakthrough times of 1-11
porous membrane, for fibre counting
samples 101-105
Floor dusts, effect of detergents on
allergens and antigens 215-229
Foetus, effect of carbon monoxide

exposure on 335-347 Formaldehyde, control of exposure in wood finishing 293-303 Fumigation, methyl bromide exposure 591-607

Furniture See: Woodworking

Germany, exposure limits 112-114b

Glass microspheres, use of OSIRIS for monitoring 271-273 Gloves, against chemicals 85-90

Haematological changes, solvent and welding vapour exposure 391-397
Hard metal disease, and cobalt exposure 609-614
Hazards data information system 182-183
Health and Safety at Work Act 1974 (HASAWA) and accident prevention 109-112b

Health and Safety Executive (HSE) approved respirators, workplace protection factors 547-552 quality assurance scheme for

isocyanates 77-83

Hearing loss, noise-induced, detection by audiometric surveillance 361-370

Hearing protectors, performance tests 453-470

Heat exchanger, for air conditioning 329c Heat stress evaluation 131-136 Holland

brickworks

dust control 483-497 respirable dust concentrations 499-507 welders' exposure to fumes and gases 45-54

Human factors, and accident prevention 114-115<sup>b</sup> Hydrogen chloride, air concentrations, PVC processing 585-590 Hydrogen sulphide exposure

health effects 323-327 water reclamation 509-519

Industrial injuries compensation, New Zealand 405-411
Infrared spectrometry, detection of amphiboles in chrysotile 159-175
Inhalability criteria 249-262, 331-333b
Inhalable dust, field comparison of personal samplers 553-573
Inhalation hazards, low-risk assessment 231-2347

Interlaboratory quality assurance scheme, isocyanate analysis 77-83
International Commission on Radiological Protection (ICRP), new recommendations 535-539

International Organization for Standardization (ISO) 249-262. International Radiation Protection Association (IRPA) 235-238

Association (IRPA) 235-238<sup>r</sup> International Safety Rating Scheme (ISRS) 410

IOM dust collecting cassettes 286-291 IOM personal inhalable dust samplers (PIDS) 553-573 IOM static inhalable aerosol sampler (IOMID), entry characteristics 249-262 IOM static inhalable dust spectrometer (SIDS), entry characteristics 249-262 Isocyanates, analysis, interlaboratory quality assurance scheme 77-83

Kaolinite fibres 60, 70-74 Kyanite, analysis of amphiboles in 159-175

Lasers, safety 664b
Legionnaires' disease, control 189-193
Local exhaust ventilation, filters 1-11
Lung cancer
arsenic 477, 481
in British rubber industry 349-359
from radon in houses 541b
Lung tissue analysis, assessment of past
exposure 427-441

Major chemical disasters medical management 663b role of occupational hygiene 615-620 Man-made mineral fibres (MMMF) airborne levels from brazing mats 97-99 past exposure assessment, lung dust analysis 427-441 Membrane filters, porous, with SEM for fibre counting 101-105

Mercury, exposure and control, chloralkali industry 205-214

Methyl bromide exposure, pest control fumigation 591-607

Microbiological hazards 541-542b

Mineral fibres, non-occupational exposure 333-334b

Mining industries, performance of air samplers for use in 249-262 Models

alveolar clearance 137-147 dosimetric 635 nitrous oxide concentration in operating/recovery rooms 575-583 pharmacokinetic/pharmacogenetic 653-662 pharmokinetic, conference 621-622<sup>r</sup>, 623-627, 639-657, 653-662 respirable dust in brickworks 499-507 toxicokinetic 639-651

Modified-Zurlo (Z5) sampler, entry characteristics 249-262
MRE 113A sampler, entry characteristics 249-262
Mullite, analysis of amphiboles in 159-175
Multiple cell ventilation model, respirable dust in brickworks 499-507

National Radiological Protection Board (NRPB), control of radon in houses 541 b New Zealand, industrial injuries compensation 405-411 Nitrous oxide, concentrations in operating/recovery rooms 575-583 Noise control, in building services 239-240b Noise-induced hearing loss (NIHL), detection by audiometric surveillance 361-370 Non-occupational exposure, mineral fibres 333-334b

492-497, 505-507 Obituary, Dr JC GILSON 119-123 Occupation, and peptic ulcers 19-27 Occupational health in China 418-419b company guidelines for 179

Nozzles, fine mist, for dust control

pharmokinetic modelling in 621-6227, 623-627, 639-657, 653-662 risk assessment 180-182

Occupational hygiene company programme 177-188 need for common voice 131-134 practical implications of proposed EEC Directives 131-136 role of biological monitoring in 315-322 role in major toxic release response

615-620 Offshore work exposure limits 13-17 See also: Drilling fluids Open-faced filter holder (OF) sampler, entry characteristics 249-262 Operating theatres, simulation of nitrous oxide concentrations 575-583 Optical scattering respirable dust indicating system (OSIRIS), performance

cf. MRE samplers 271-273 Paper mill, airborne dust characterisation 55-75 Patents, selection for The Annals 107-108c PATHAUT, computerised system for mining exposure and smoking data 444-446 Personal inhalable aerosol sampler/spectrometer (PIAS/PIDS), entry characteristics 249-262 Personal samplers inhalable dust, field comparison 553-573 use of dust-collecting cassettes in 281-291 Pest control, exposure during methyl bromide fumigation 591-607 Pharmacogenetic models 653-662

conference 621-6227, 623-627, 639-657, and drug metabolism 653-662

and biological exposure indicators 639-651

inhaled particles 633-634

Pharmacokinetic modelling

Phthalic anhydride (PA), air concentrations, PVC processing 585-590 Picture mix exposure (PIMEX), training for solvent exposure control 296 Plastics, air impurities during PVC processing 585-590 Plastics industry, work environment manual 29-34 Pneumoconiosis, radiographic atlas 116 Pneumoconiosis Research Council 119-123 Polyacetate exposure, detection of biological effects 391-397 Polyvinyl chloride (PVC) processing, air impurities 585-590 Precision cascade impactor, entry characteristics 249-262 Protective clothing materials, test procedures 85-90 Pulmonary fibrosis, and cobalt exposure 609-614

Quality assurance, isocyanate analysis 77-83 Quartz respirable dust concentrations, Dutch brickworks 486-492 respirable particles, clay occlusion

of 195-204

Race, and asbestosis risk 450-451 Radiation, ionizing, revision of dose limits 535-539 Radiation protection 235-238<sup>r</sup> Radon, control in houses 541b Recovery rooms, simulation of nitrous oxide concentrations 575-583 Report format, health hazard investigation 185-188 Reproductive effects, carbon monoxide exposure 335-347 Respirators sampling of asbestos fibres within 547-552 workplace protection factors, asbestos stripping 547-552 Rubber industry, mortality study 349-359

Safety See: Accident prevention Scanning electron microscopy (SEM) and EDX, occlusion of quartz particles 195-204 and porous filters for fibre counting 101-105 Self-regulation, effectiveness 109-112b Sepiolite, analysis of amphiboles in 159-175 Sewage works, hydrogen sulphide exposure 509-519 Significant hearing threshold shift 361-370

## Subject Index

Silica

amorphous 63
crystalline, See: Quartz
Silicon carbide, use of OSIRIS for
monitoring 271-273
SKC Liquid Sorbent Badge, for

formaldehyde sampling 305-313 Skin, lesions at margins of dust masks 481

Small firms, improvement of work environment 29-34

Smell, effect of hydrogen sulphide on sensitivity to 324-325

Social class, and peptic ulcer 19-27 Solvent syndrome, exposure-effect 383-384 Solvents

control of exposure in wood finishing 293-303 detection of biological effects 391-397 exposure levels survey 379-389

usage survey 371-378
Spectacles, effect on performance of hearing protectors 464-465
Spectrometers

dust sampling 249-262 infrared 159-175 Spinners' eye 325-326

Spray painting, control of solvent and formaldehyde exposure 293-303 Stomach cancer, in British rubber

industry 349-359

Surface coating, control of solvent and formaldehyde exposure 293-303
Surfactant, alveolar clearance hydrodynamics 137-147

Surveillance, audiometric 361-370 Sweden, mercury exposure, chloralkali industry 205-214

Talc

analysis of amphiboles in 159-175 lung fibre content, MMMF workers 431-438 use of OSIRIS for monitoring 271-273 Talc fibres 61, 71-74 TBF50 sampler, entry characteristics 249-262 TD sampler, entry characteristics 249-262 Teratogenicity, of carbon monoxide 335-347 Thermoplastics industry, detection of biological effects 391-397 Threshold amphibole exposure 443-451 hearing 361-370 Tissue analysis, assessment of past exposure 427-441 Toxic releases medical aspects 663b role of occupational hygiene 615-620 Toxicokinetic modelling 13-17, 639-651 Traffic, vehicular, asbestos fibre release from 529-534 Training, for control of exposure to solvents 296 Tremolite analysis in chrysotile and other minerals 159-175

lung fibre content, MMMF workers 431-438

Ulcers, peptic 19-27

Varnishes, See: Surface coatings Vermiculite, analysis of amphiboles in 159-175

Water reclamation, hydrogen sulphide exposure 509-519
Water spray, dust control in brickworks 492-497, 505-507
Water systems, management for Legionella control 189-193
Welders, furme and gas exposure 45-54
Welding
airborne MMMF fibres from brazing mats 97-99
polyacetate, detection of biological effects 391-397
Wollastonite
analysis of amphiboles in 159-175
fibres in paper mill 62, 71-74
Woodworking

control of solvent and formaldehyde exposure 293-303 organic solvents usage 375-376 Workplace protection factors, HSE approved respirators 547-552

X-ray diffractometry (XRD), detection of amphibole in chrysotile 159-175



## **AUTHOR INDEX**

b = Book Review; c = Correspondence

ADAMUS, J. 91
ADDISON, J. 159
AGIUS, R. 541b
ANDERSON, P.W.P. 97
ANDERSSON, IM. 293
ANTONSSON, AB. 29

BAGON, D.A. 77 BALIEU, E. 1 BARREGARD, L. 205 BAXTER, P.J. 615 BERNHARD, C.A. 591 BEVING, H.F.G. 391 BJARNOV, E. 1 BOLSAITIS, P. 195 BONSALL, J.L. 85 BORM, P.J.A. 575 BOTHAM, R.A. 553 BULL, R.K. 35 BURINGH, E. 483, 499

CAMPBELL, I.B. 405 CARTON, B. 399 CASE, B.W. 427 CAYGILL, C.P.J. 19 CHALMERS, C.P. 553 CHUNG, K.Y.K. 263

DAVIES, L.S.T. 159 DEMANGE, M. 399 DENNIS, P.J.L. 189 DEWELL, P. 107c, 239b DOUWEN, M. 609 DRISCOLL, C. 664b DROZ, P.O. 621 du TOIT, R.S.J. 443 DUGGAN, M.J. 541b DUGUAY, P. 361 DYBENDAL, T. 215

EIDE, I. 13, 149 ELLWOOD, P.A. 305 ELSAYED, S. 215 ENTERLINE, P.E. 427 EPPELSHEIMER, D. 195 EVANS, M.J. 85

OGDEN, T.L. 332b FISEROVA-BERGEROVA, V. 639 OLSEN, E. 371, 379

GENDRE, J.C. 399 GLASS, D.C. 323, 509 GRADON, L. 137 GROVES, J.A. 305 GUILLEMIN, M.P. 591

HALTON, D.M. 335 HARPER, M. 471 HARRISON, J. 195 HEMPSTOCK, T.I. 453 HENDERSON, V. 427 HERVE-BAZIN, B. 399 HETU, R. 361 HILL, E. 453 HILL, M.J. 19 HILLIER, R.S. 591 HNIZDO, E. 443 HUGHES, D. 535

JACKSON, M.H. 521, 547 JACKSON, P.R. 653 JAFFREY, S.A.M.T. 529 JÄRVHOLM, B. 205 JOHANSON, G. 621 JURINGE, L. 293

KANT, I.J. 575 KEANE, M.J. 195 KING, E. 109b, 112b, 315 KIRKHAM, J.S. 19 KNOWLES, R.L. 19

LAHAYE, D. 609 LEINSTER, P. 85 LEWIS, S.J. 85

McDONALD, A.D. 427 McDONALD, J.C. 427 MALCHAIRE, J. 125 MARK, D. 249, 281 MARSHALL, M. 35 MOLYNEUX, M.K. 177

NASH, T. 329c NEWHOUSE, M.L. 333b, 663b NORMAN, C.A. 335 NORTHFIELD, T.C. 19

PAGE, S.J. 195 PARKER, R.C. 35

PELTIER, A. 399 PENGELLY, M.I. 305 PETREN, S. 391 PFÄFFLI, P. 585 PLOURDE, M. 427 PODGORSKI, A. 137 POSSEL MIRANDA, G. 471 POSTON, J. 195 PURNELL, C.J. :

QUOC, H.T. 361

RICHARDS, A.G. 2357 ROEBUCK, B. 263 ROOSELS, D. 609 ROSEN, G. 293

SAHLE, W. 55, 101 SÄLLSTEN, G. 55, 205 SEBASTIEN, P. 427 SEEDORFF, L. 371, 379 SHERWOOD, R.J. 418b SHIPLEY, P. 114b SLUIS-CREMER, G.K. 443 SNIEGOWSKI, A. 91 STEVENS, D.C. 35 SWIFT, D.L. 331b

TANNAHILL, S.N. 521, 547 THOREN, K. 55 TUCKER, G.T. 653

VAINIOTALO, S. 585 van de BELT, R. 483, 499 van den OEVER, R. 609 van der WAL, J.F. 45, 483, 499 van RIJSSEN-MOLL, M. 575 VANDERKEEL, J. 609 VAUGHAN, N.P. 263, 553 VESTERBERG, O. 391 VEYS, C.A. 349 VIK, H. 215 VINCENT, J.H. 249, 623

WALLACE, W.E. 195 WALTON, W.H. 119 WATERMAN, L.S. 97 WEETMAN, D.F. 231 WESTERHOLM, P. 413b WILLEY, R.J. 521, 547 WILSON, H.G.E. 177